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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,755	02/21/2006	Stefan Boehm	03100282AA	6657
WHITHAM, CURTIS & CHRISTOFFERSON & COOK, P.C. 11491 SUNSET HILLS ROAD			EXAMINER	
			MCNALLY, DANIEL	
SUITE 340 RESTON, VA 20190			ART UNIT	PAPER NUMBER
			1791	
			MAIL DATE	DELIVERY MODE
			01/25/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/568,755	BOEHM ET AL.				
Office Action Summary	Examiner	Art Unit				
	DANIEL MCNALLY	1791				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 29 Se	eptember 2009.					
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· <del>=</del>	· —					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1,14-16 and 19</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,14-16 and 19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the o	• , ,	* *				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)	о <b>п</b>	(770,440)				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) U Other:						

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1, 14-16 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites "a reactive or non reactive... adhesive" in line 3 and "said nonreactive... adhesive" in line 8. It is unclear if the adhesive is required to be nonreactive or not, because line 3 says the adhesive can be reactive or nonreactive and line 8 says the adhesive is nonreactive. It is recommended fixing the conflicting language in the claim. Claims 14-16 and 19 depend from claim 1, require all the limitations of claim 1 and are therefore rejected for the same reason.

Claim 19 discloses "bond sites" in lines 7 and 8, and "powder layer" in lines 8 and 9. Claim 19 was amended to depend from claim 1 and the terms "bond sites" and "powder layer" are not used in the independent claim 1. It is unclear if "bond sites" are the same as the "contact areas" of claim 1. If the bond sites are the as the contact areas it is recommended using the same term in all of the claims. It is unclear if "powder layer" is the same as the "hotmelt adhesive" of claim 1. If the powder layer is the same as the hot melt adhesive it is recommended using the same term in all the claims.

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## Allowable Subject Matter

3. Claims 1, 14-16 and 19 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

4. The following is a statement of reasons for the indication of allowable subject matter: Claim 1 was amended to require a particular adhesive particle size. The cited prior art does not disclose a pulverulent, hotmelt adhesive dispersion with particles of the claim size that is screen printed on selected areas. The admitted prior art and Moeller disclose bonding a microcomponent with a hot melt adhesive, but do not disclose using a pulverulent hot melt adhesive dispersion or screen printing the adhesive. Magnin discloses a pulverulent adhesive can be selectively applied to areas of a substrate instead of using a liquid adhesive. Magnin suggest the claimed particle size, because the entire thickness of the adhesive layer is less than 10 microns, but Magnin does not disclose the pulverulent adhesive can be screen printed. Previously cited Kalbe disclose a powder adhesive of the claimed particle size. Kalbe discloses the adhesive is a powder and does not suggest providing the powder in a dispersion, and Kalbe does not disclose screen printing the adhesive powder or a dispersion. Kalbe does disclose using powder adhesive, but does not suggest the powder adhesive is better than or has added benefits over using a liquid adhesive as used by the Admitted Prior Art. As discussed above the cited prior art does not disclose screen printing to selective areas a pulverulent hot melt adhesive dispersion. Additionally there is no motivation to use a screen printed powdered hotmelt adhesive in a dispersion rather than the liquid adhesive of the Admitted Prior Art.

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## Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL MCNALLY whose telephone number is (571)272-2685. The examiner can normally be reached on Monday - Friday 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daniel McNally/ Examiner, Art Unit 1791 /John L. Goff/ Primary Examiner, Art Unit 1791

DPM January 15, 2010